

Title (en)

ACOUSTIC WAVE TOUCH DETECTION CIRCUIT AND METHOD

Title (de)

SCHALLWELLENBERÜHRUNGSDETEKTIONSSCHALTUNG UND -VERFAHREN

Title (fr)

CIRCUIT DE DETECTION D'EFFLEUREMENT A ONDES ACOUSTIQUES ET PROCEDE ASSOCIE

Publication

EP 1642260 A2 20060405 (EN)

Application

EP 04754673 A 20040602

Priority

- US 2004018122 W 20040602
- US 45400303 A 20030604

Abstract (en)

[origin: US2004246239A1] A circuit for an acoustic wave switch or sensor having a resonant acoustic wave cavity detects a touch or sensed event using a time domain approach. The circuit includes a controller that drives an acoustic wave transducer to generate a resonant acoustic wave in the acoustic wave cavity during a first portion of a sampling cycle. In a second portion of the sampling cycle, the controller monitors the time that it takes for the acoustic wave signal from the transducer to decay to a predetermined level. Based on the decay time, the controller detects a sensed event, such as a touch on the acoustic wave switch/sensor.

IPC 1-7

G09G 5/00

IPC 8 full level

G06F 3/043 (2006.01); **H01H 13/83** (2006.01); **H03K 17/96** (2006.01)

CPC (source: EP US)

G06F 3/0436 (2013.01 - EP US); **H01H 13/83** (2013.01 - EP US); **H03K 17/96** (2013.01 - EP US); **H01H 2239/054** (2013.01 - EP US); **H03K 2217/96011** (2013.01 - EP US)

Designated contracting state (EPC)

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US 2004246239 A1 20041209; **US 7265746 B2 20070904**; EP 1642260 A2 20060405; EP 1642260 A4 20070808; EP 1642260 B1 20121212; US 2007261895 A1 20071115; US 7812269 B2 20101012; WO 2004109925 A2 20041216; WO 2004109925 A3 20051201

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